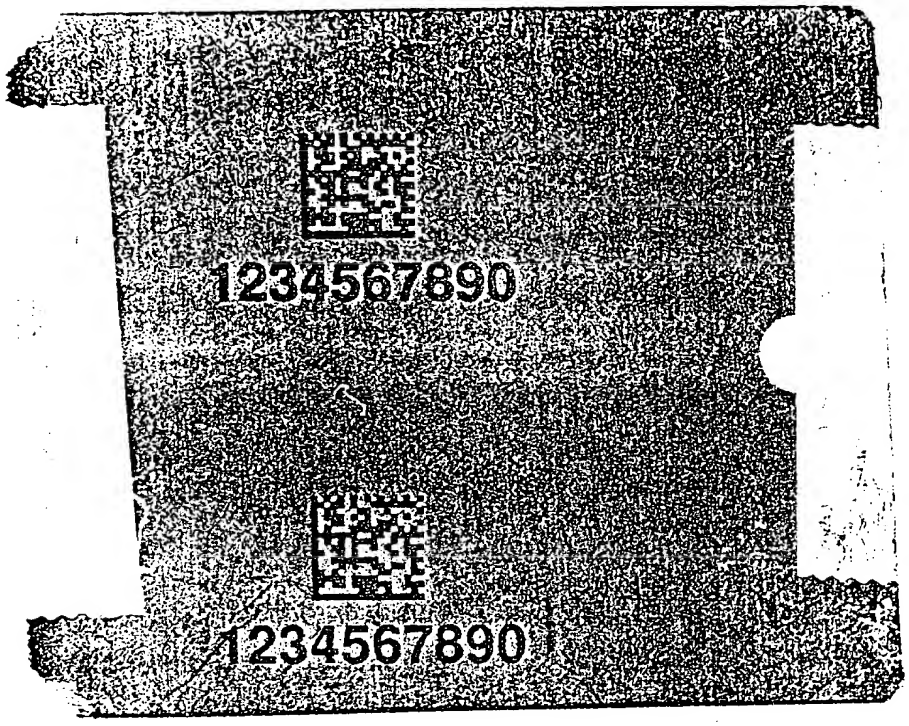


FIG. 2 1

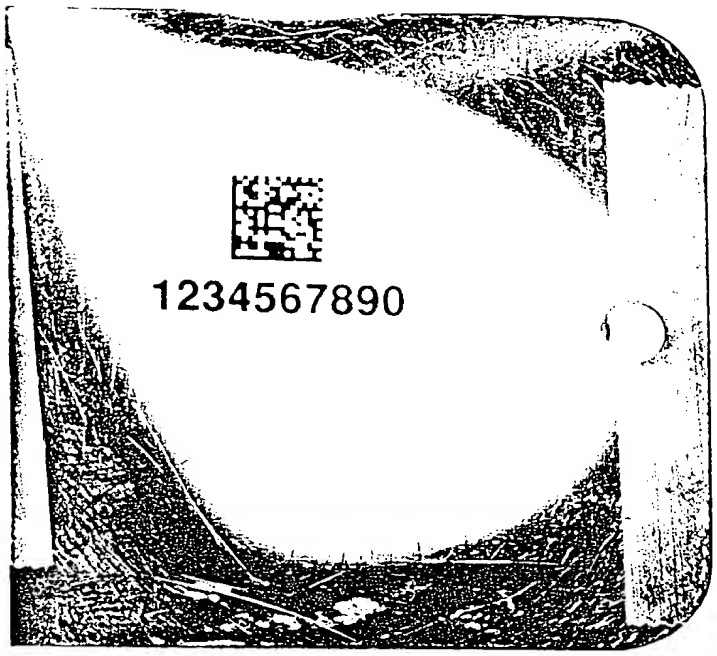


FIG. 3 2

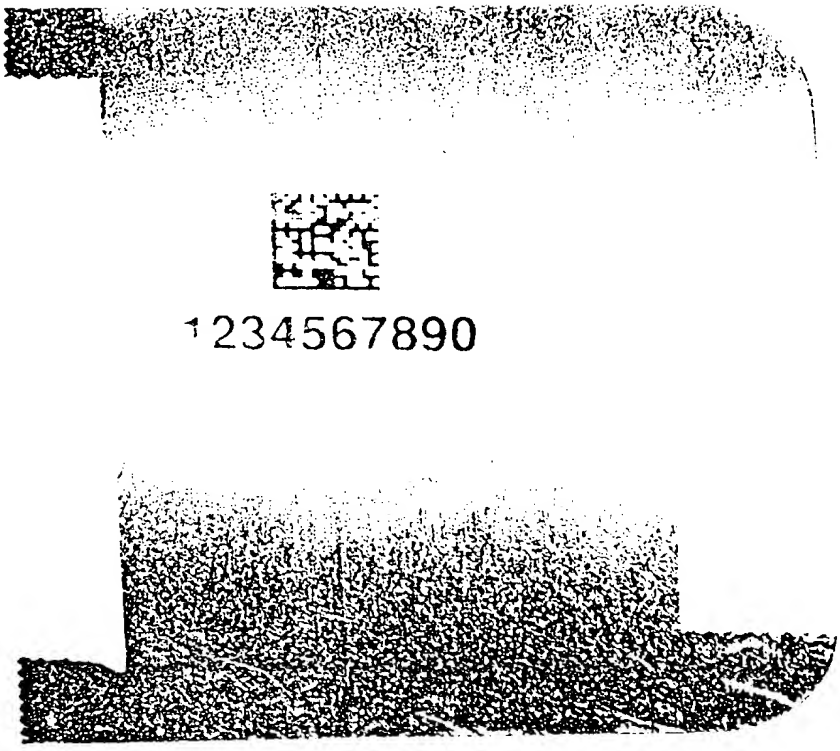


FIG. 43

FIG. 5A

FIG. 6

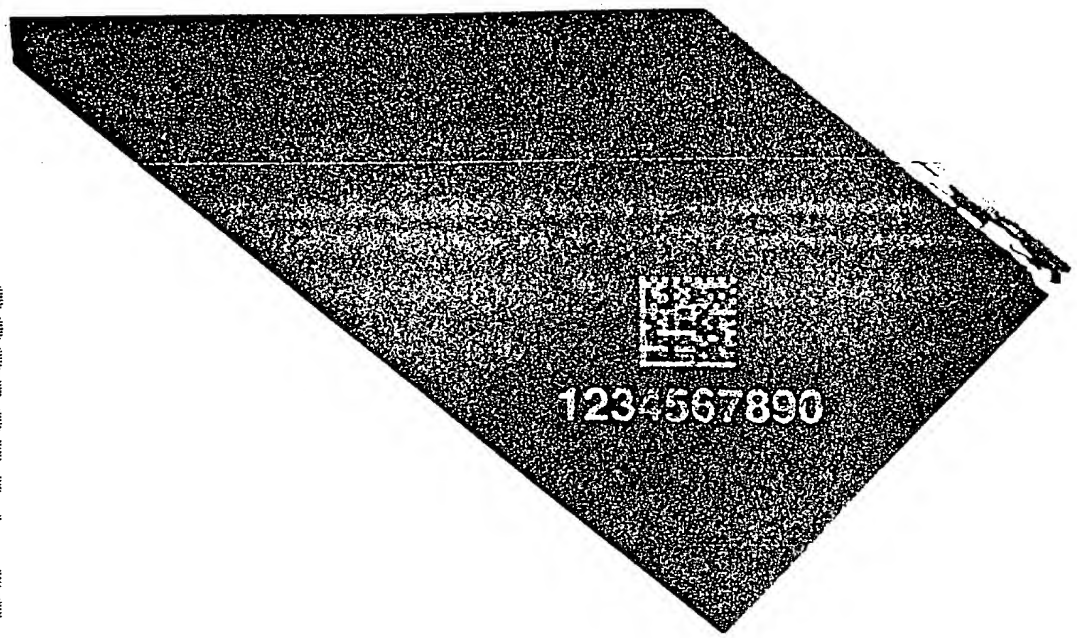


FIG. 7 6

P TYPE

FIG. 8

7

FIG. 8

Substrate Materials	Marking Materials	Beam Speed	Power (watts)	Freq (Khz/CW)
Aluminum	Mixed Metal Oxide	200mm/sec	5 watts	CW
Aluminum	Glass Frit	250mm/sec	5 watts	CW
Brass	Mixed Metal Oxide	200mm/sec	5 watts	CW
Ceramic	Glass Frit	200mm/sec	5 watts	CW
China	Glass Frit	200mm/sec	5 watts	CW
Copper	Mixed Metal Oxide	100mm/sec	5 watts	20 KHz
Auto Safety Glass	Glass Frit	200mm/sec	5 watts	CW
CRT Display Glass	Glass Frit	200mm/sec	5 watts	CW
Flat Panel Display Glass	Glass Frit	200mm/sec	5 watts	CW
Microscope Slide Glass	Glass Frit	200mm/sec	5 watts	CW
Nickel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Nylon™	Mixed Metal Oxides	250mm/sec	5 watts	CW
Porcelain	Glass Frit	200mm/sec	5 watts	CW
PVC	Mixed Organic Pigments	200mm/sec	5 watts	CW
Stainless Steel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Stainless Steel	Glass Frit	300mm/sec	5 watts	CW
Teflon™	Mixed Metal Oxides	200mm/sec	5 watts	CW
Tin	Mixed Metal Oxide	200mm/sec	5 watts	CW
Titanium	Mixed Metal Oxide	200mm/sec	5 watts	CW

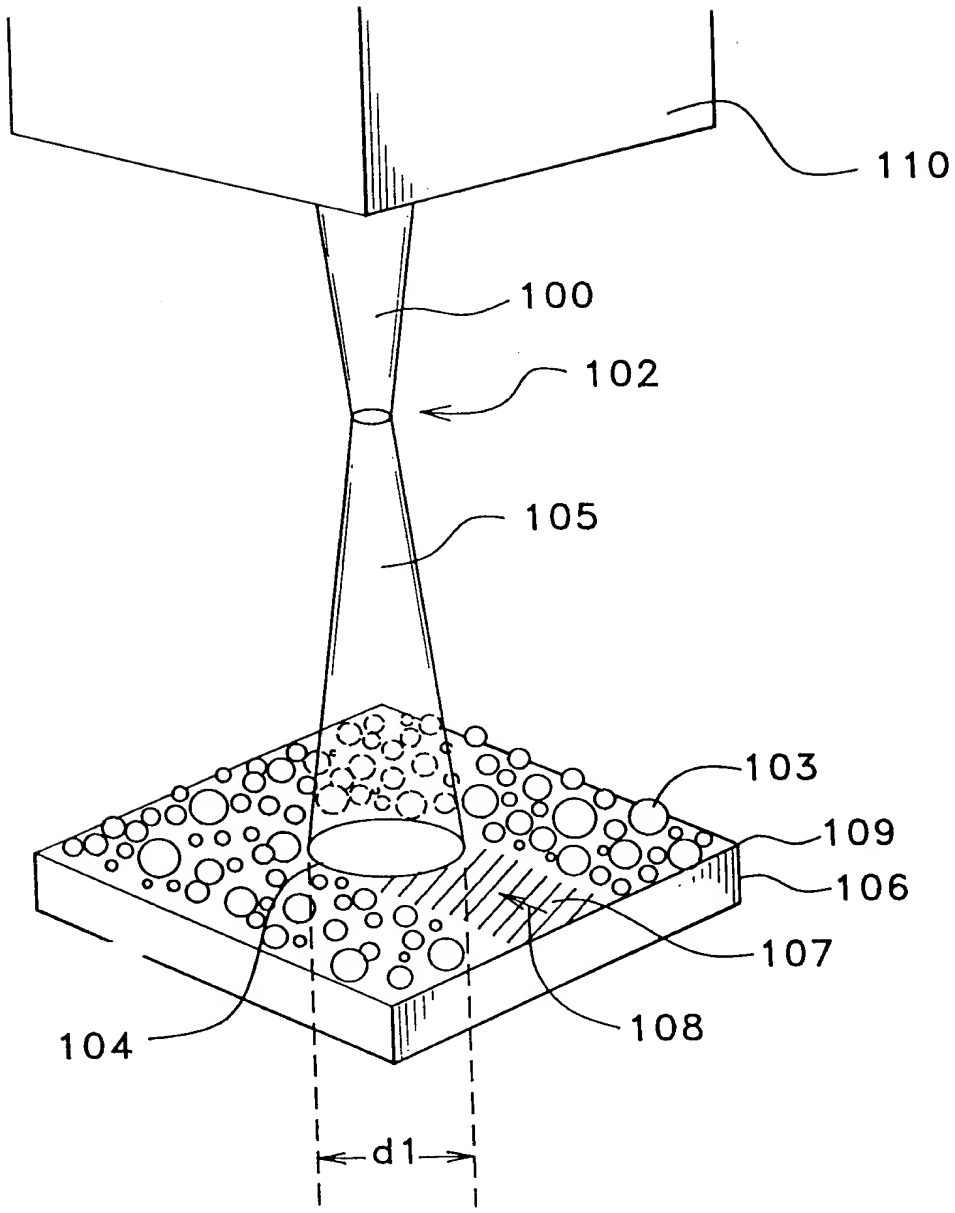


FIG. 9

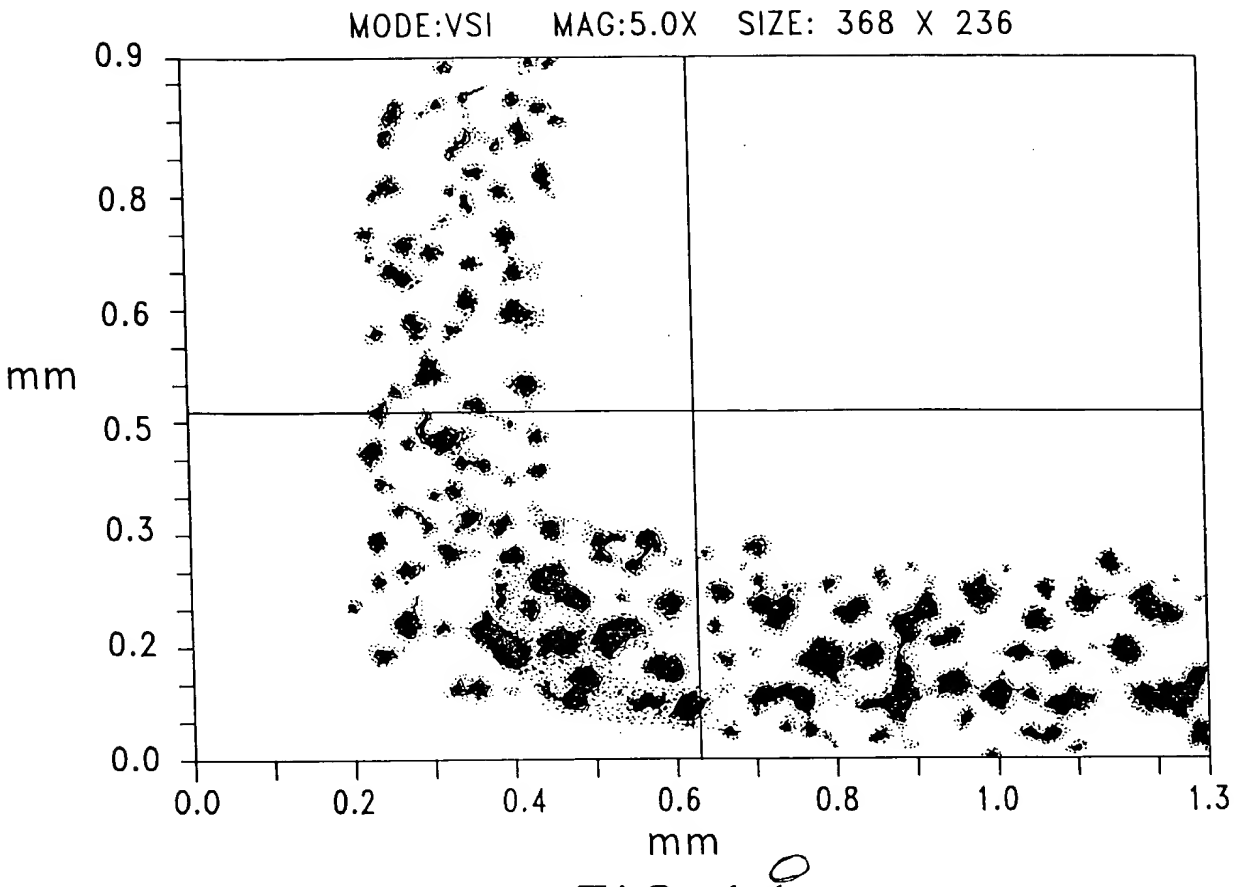


FIG. 11a

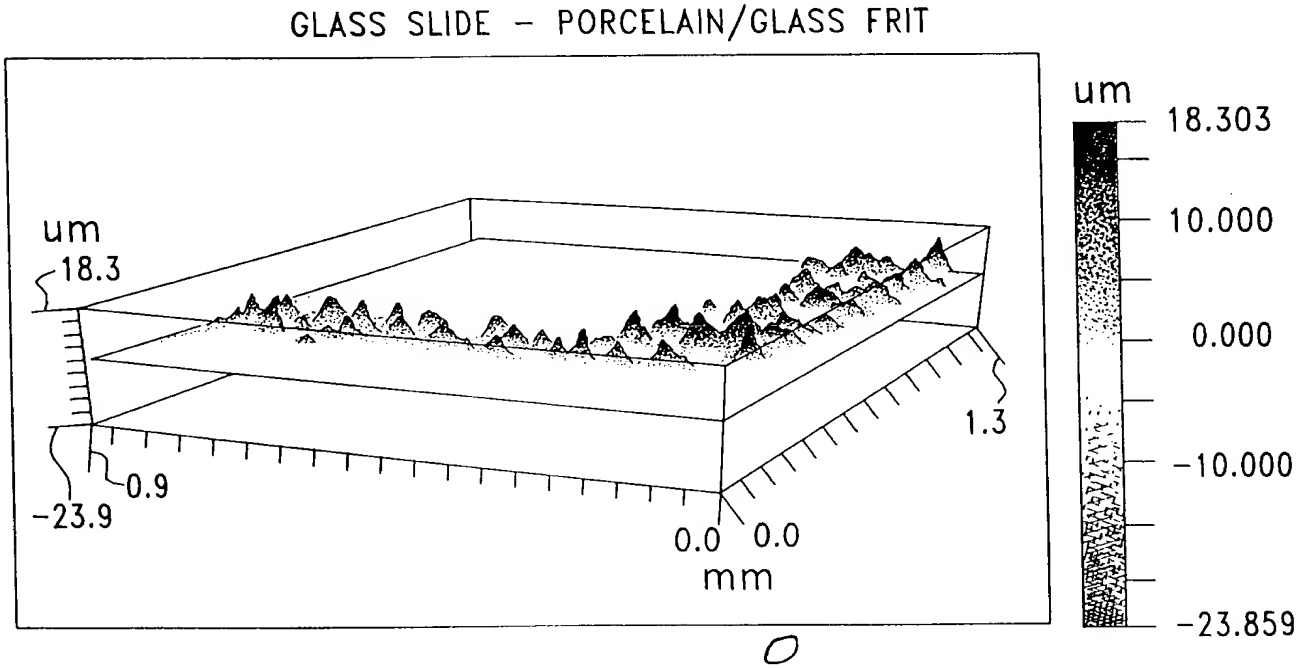
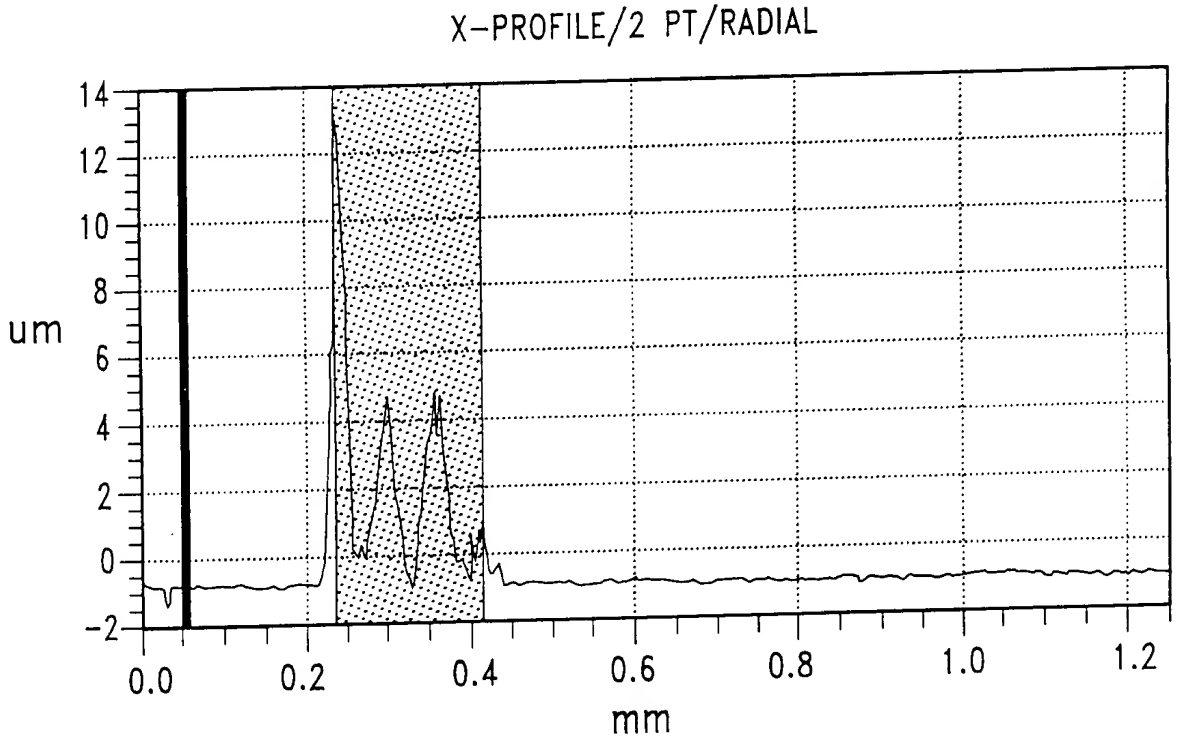


FIG. 11b

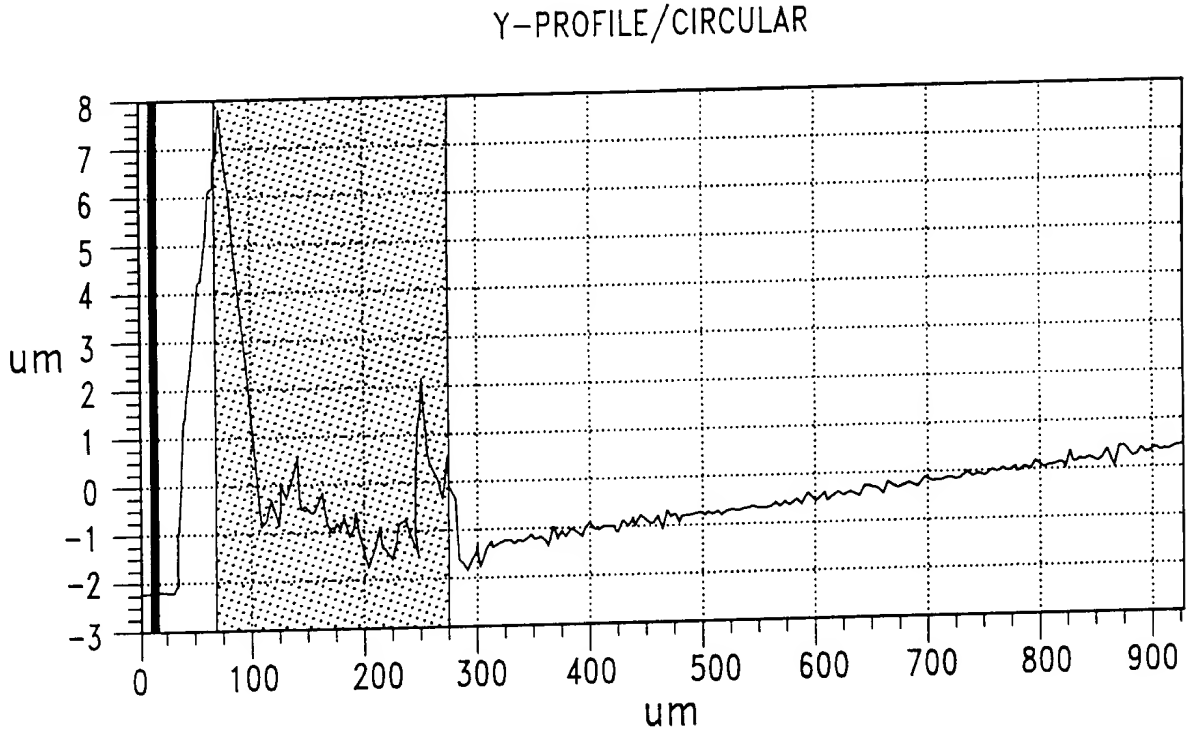


Rq: 2.92 um
Ra: 1.97 um
Rt: 14.09 um
Rp: 13.17 um
Rv: -0.92um

L: 0.05 mm -0.83 um
R: 0.33 mm 2.23 um
D: 0.27 mm 3.05 um

Angle: 0.64°
Curve: -14.65 mm
Terms: None
AvgHt: 0.61 um
Area 0.17 um2

FIG. 11C



Rq: 2.85 um
Ra: 2.44 um
Rt: 9.96 um
Rp: 7.79 um
Rv: -2.16 um

L: 13.93 um -2.15 um
R: 170.62 um 0.54 um
D: 156.69 um 2.69 um

Angle: 0.98°
Curve: -492.76 um
Terms: None
AvgHt: 1.20 um
Area: 187.84 um2

FIG. 11d